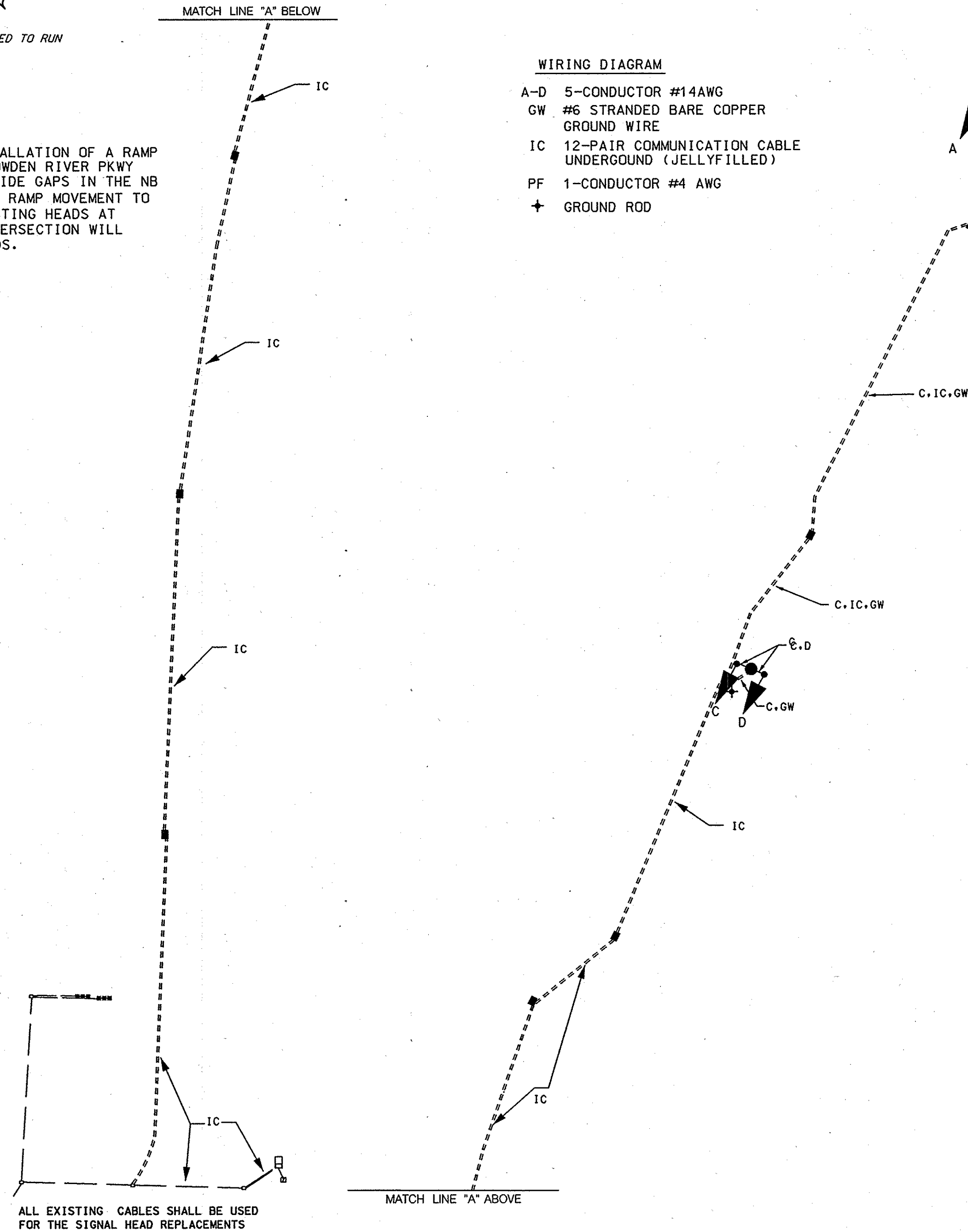


SNOWDEN RIVER PARKWAY IS CONSIDERED TO RUN
IN A NORTH SOUTH DIRECTION

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A RAMP
METERING SIGNAL FOR THE NB SNOWDEN RIVER PKWY
APPROACH. THE SIGNAL WILL PROVIDE GAPS IN THE NB
TRAFFIC TO ALLOW THE WB MD 100 RAMP MOVEMENT TO
ENTER THE ROUNDABOUT. THE EXISTING HEADS AT
THE MD 108 @ SNOWDEN RIVER INTERSECTION WILL
BE UPGRADED TO LED SIGNAL HEADS.

MATCH LINE "A" BELOW



WIRING DIAGRAM

A-D 5-CONDUCTOR #14AWG
GW #6 STRANDED BARE COPPER
GROUND WIRE
IC 12-PAIR COMMUNICATION CABLE
UNDERGROUND (JELLYFILLED)
PF 1-CONDUCTOR #4 AWG
+ GROUND ROD

PROPOSED SERVICE FEED
USE EXISTING BASE MOUNTED
BGE TRANSFORMER

PHASE CHART

	1	2	3	4	
	Y	Y	R Y G	R Y G	
NORMAL OPERATION	FL Y	FL Y	FLY	FLY	↑ ↓
PHASE 01	FL Y	FL Y	R	R	↑ ↓
PHASE 02	FL Y	FL Y	G	G	↑ ↓
02 CHANGE	FL Y	FL Y	Y	Y	↑ ↓

SIGNAL OPERATION

THIS SIGNAL WILL OPERATE USING A TIME OF DAY OPERATION FOR ITS INITIAL OPERATION WITH THE OPTION OF CONVERTING
TO A TRAFFIC RESPONSIVE OPERATION UTILIZING QUEUE DETECTORS INSTALLED ALONG THE WB MD 100 OFF RAMP. THE INITIAL
OPERATION WILL FLASH THE NB SNOWDEN RIVER INDICATIONS YELLOW DURING THE DAY, THEN, DURING THE PEAK PM PERIOD,
THE NB INDICATIONS WILL FUNCTION IN A RED, YELLOW, GREEN MODE BASED ON TIMING PROVIDED FROM THE SIGNAL AT MD 108
AND SNOWDEN RIVER PARKWAY. THE TIMING WILL PROVIDE A GREEN INDICATION FOR THE NB SNOWDEN RIVER PARKWAY APPROACH
TO CLEAR OUT ANY NB QUEUE PRIOR TO THE NB PLATOON ARRIVING FROM THE MD 108 INTERSECTION. ONCE THE QUEUE AND THE
PLATOON HAVE BEEN SERVED THE NB MOVEMENT WILL BE STOPPED TO ALLOW THE WB RAMP MOVEMENT TO FLUSH.

THE CONTROLLER AT THE MD 108 INTERSECTION WILL OPERATE AS A MASTER CONTROLLER AND THE CONTROLLER AT THE RAMP WILL
OPERATE AS A SLAVE CONTROLLER.

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM #	QUANTITY	ITEM DESCRIPTION
9042	1 EA	CONTROLLER ACSII WITH TELEMETRY
9044	1 EA	CABINET BASE MOUNTED-SIZE 6
9571	16 SF	SHEET ALUMINUM SIGN-MAST ARM/POLE MOUNTED SIGN - 1 EA 48"X48" W3-3 "SIGNAL AHEAD SIGN" UPRIGHT POLE MOUNTED

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM #	QUANTITY	ITEM DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2002	3 CY	TEST PIT EXCAVATION
5002	10 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS-ANY WIDTH
5003	5 EA	REMOVAL OF EXISTING PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS, AND NUMBERS
8001	55 EA	12 INCH LED SIGNAL HEAD SECTION
8004	6 EA	8 INCH LED SIGNAL HEAD SECTION
8009	1 EA	BREAKAWAY PEDESTAL POLE-ANY SIZE
8018	1 EA	MAST ARM POLE AND 70' MAST ARM
8022	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT-PER ASSIGNMENT
8029	1800 LF	FURNISH AND INSTALL 12 PAIR #19AWG COMMUNICATION CABLE-JELLYFILLED
8035	2000 LF	F&I SCH 80 RIGID PVC CONDUIT UP TO 4"-TRENCHED
8036	300 LF	F&I SCH 80 RIGID PVC CONDUIT UP TO 4"-BORED
8039	16 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8041	425 LF	FURNISH AND INSTALL #6 STRANDED BARE COPPER GROUND WIRE
8043	1 EA	METERED SERVICE PEDESTAL EMBEDDED
8045	50 LF	FURNISH AND INSTALL 1-CONDUCTOR #4AWG THHN
8047	13 EA	FURNISH AND INSTALL ELECTRICAL HANDBOX
8056	600 LF	ELECTRICAL CABLE-5 CONDUCTOR #14AWG
8065	1 EA	INSTALL CONTROLLER AND CABINET-BASE MOUNT
8007	1 EA	ANY SIZE L&S ARM ON SIGNAL POLE W/ 250 W HPS LAMP - LUMINAIRE
8058	100 LF	ELECTRICAL CABLE- 2 CONDUCTOR NO 12 AWG TL

C. EQUIPMENT TO BE RETURNED TO THE ADMINISTRATION

ALL EQUIPMENT REMOVED IN ACCORDANCE WITH THESE PLANS
SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PROJECT CONTACTS

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TOD No.: AT783-14
SHA No.: HO377a56/B56
MD 100 @ Snowden River Pkwy

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 108 @ SNOWDEN RIVER PKWY
COLUMBIA, MARYLAND

APPROVALS	REVISIONS	SCALE 1"=50'	DATE JUNE 1998	CONTRACT NO. HO-661-504-770
TEAM LEADER	D. INSTALL NB RAMP METERING SIGNAL FOR SNOWDEN RIVER PARKWAY. REPLACE ALL SIGNALS AT MD 108 WITH LED HEADS AT 7/8/98	DESIGNED BY R. CICHINI	COUNTY HOWARD	
ASST. DIV. CHIEF	C. REORIENTED PLANSHEET AS REQUESTED BY SIGNAL SHOP 8/2004	DRAWN BY R. CICHINI	LOGMILE 13010813.15	
DIVISION CHIEF	B. SWITCHED MAINLINE. ADDED PRESENCE DETECTION ALONG MD 108 AND UPGRADED TO VIDEO DETECTION AT 2/2004	CHECKED BY D. PETERS	T.I.M.S. NO. F 829	
OFFICE DIRECTOR	STV/ARX	F.A.P. NO.	TOD NO.	
		DRAWING NO. TS 3581	OF	SHEET NO. OF

PLOTTED: TUESDAY, SEPTEMBER 05, 2006 AT 12:28:33 PM
FILE: MD 108 @ SNOWDEN RVR-REDLINE.DGN